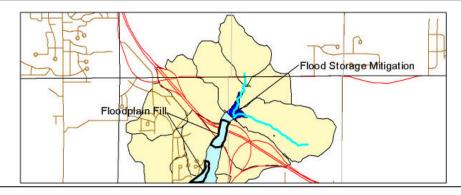
Floodplain Management: Floodplain Mitigation

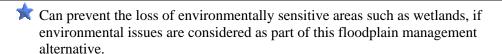




Description

Floodplain mitigation allows for development within the flood fringe, provided that the flood storage volume and environmental impacts are mitigated at a single designated off-site location to be used by multiple stakeholders along a given stream reach. This concept can be effective for mitigating the loss of riparian buffers, wetlands areas, and wildlife habitat by establishing a banking system. The banking system preserves a environmentally valuable tract of land as a means to maintain the balance of environmental assets as development occurs in a watershed. This concept has limited applicability for mitigating floodplain storage unless the tract of land is located in a proper location relative to the development. For example, it is not appropriate to mitigate floodplain storage loss in a separate watershed or at a location downstream from the development site.

Advantages





May be appropriate for regional detention facilities within a watershed if hydraulic equivalency can be demonstrated.

Disadvantages

- © Can increase flood elevations if not implemented properly.
- © Limited applicability for flood storage mitigation.
- Difficult to locate and to obtain mitigation site.
- High construction costs.
- Requires detailed planning.
- © Not always appropriate for developed watersheds.
- Requires a significant administrative effort to implement and manage.

Implementation Considerations

- Most effective with established watershed plan.
- May require more technical resources for review.
- Requires increase awareness and understanding of dynamic floodwater flow through a watershed.



Floodplain Management: Floodplain Mitigation Identification of mitigation sites within the watershed important for success. Ownership and maintenance of mitigation sites. Lake County, Illinois (Mitigation for "isolated" wetlands) Example Communities Spaulding Township, Michigan No Adverse Impact Status Report: Helping Communities Implement NAI, Association References of State Flood Plain Managers, June 2002. Mitigation Success Stories, Edition 4, Association of State Flood Plain Managers, January 2002.